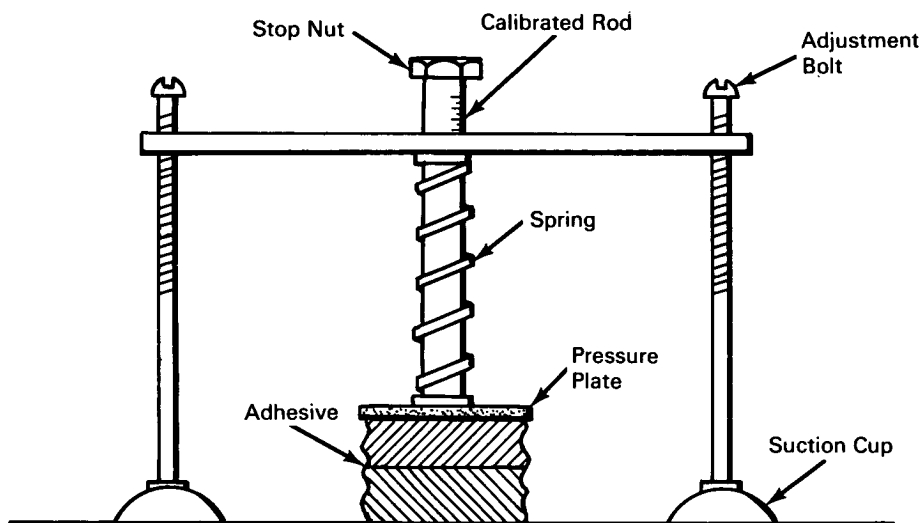


NASA TECH BRIEF



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Calibrated Clamp Facilitates Pressure Application



The problem:

Applying a specific clamping pressure to hold materials together or to hold work to a surface during bonding, machining, welding, and other similar operations.

The solution:

A spring-loaded clamp having two adjustable legs that are terminated in suction cups, permitting easy attachment to a surface.

How it's done:

The two threaded bolts connected to the crossbar are fitted with suction cups in a swivel connection, facilitating attachment to a curved surface. The pressure plate is attached to the spring-loaded rod passing through a hole in the center of the crossbar.

When the device is used to clamp materials together, the suction cups are placed on a supporting surface and fastened, if necessary, with a nonhardening adhesive. The screw bolts are then adjusted to apply the desired pressure to the pressure plate. The spring-loaded rod may be provided with calibrated markings to indicate the applied pressure.

Note:

Inquiries concerning this invention may be directed to:

Technology Utilization Officer
Manned Spacecraft Center
P.O. Box 1537
Houston, Texas, 77001
Reference: B66-10059

(continued overleaf)

Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code AGP, Washington, D.C., 20546.

Source: North American Aviation, Inc.,
under contract to
Manned Spacecraft Center
(MSC-298)